

FINE FORCE CONTROL OF ACTUATORS FOR CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

1/12

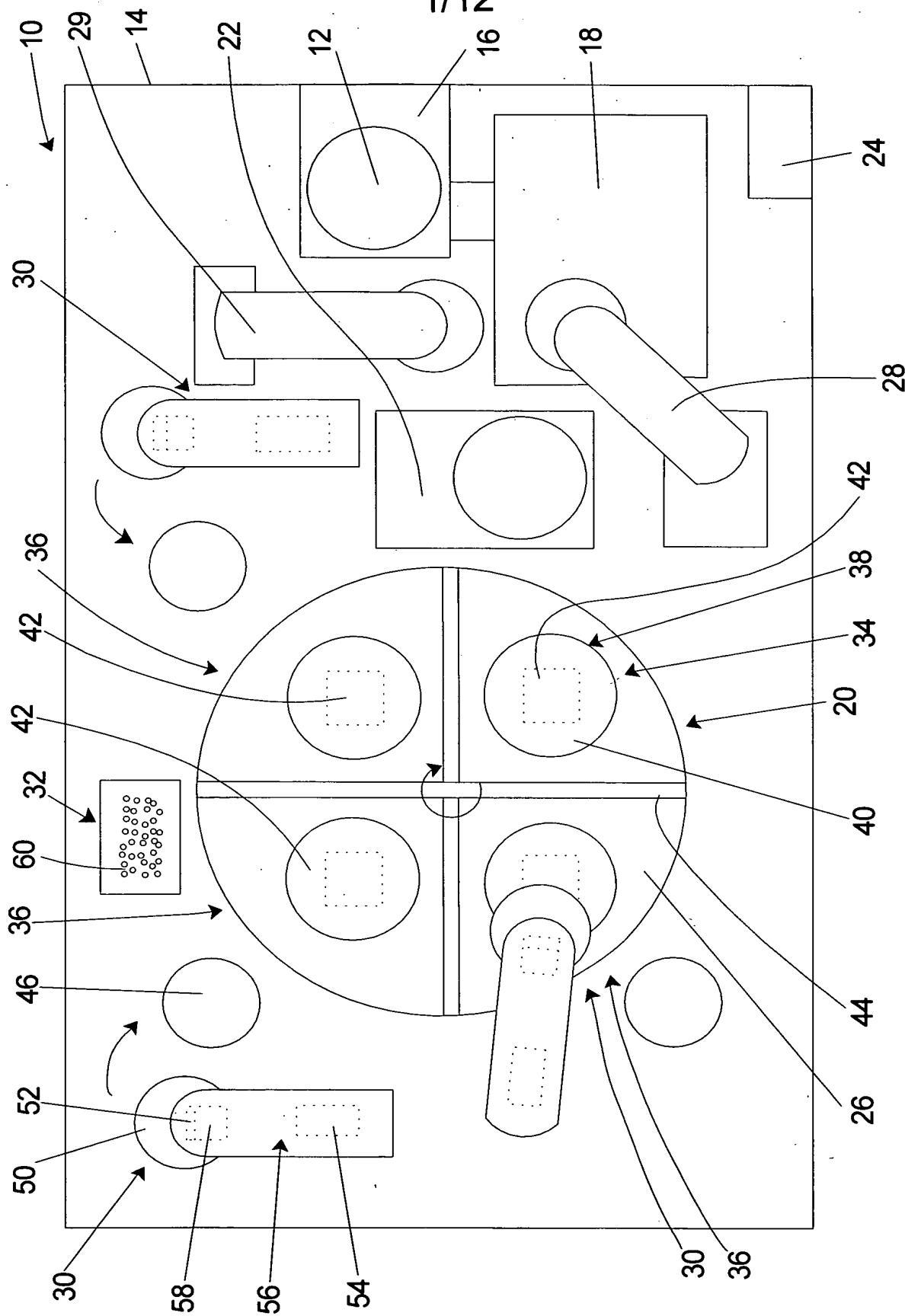


Figure 1

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

2/12

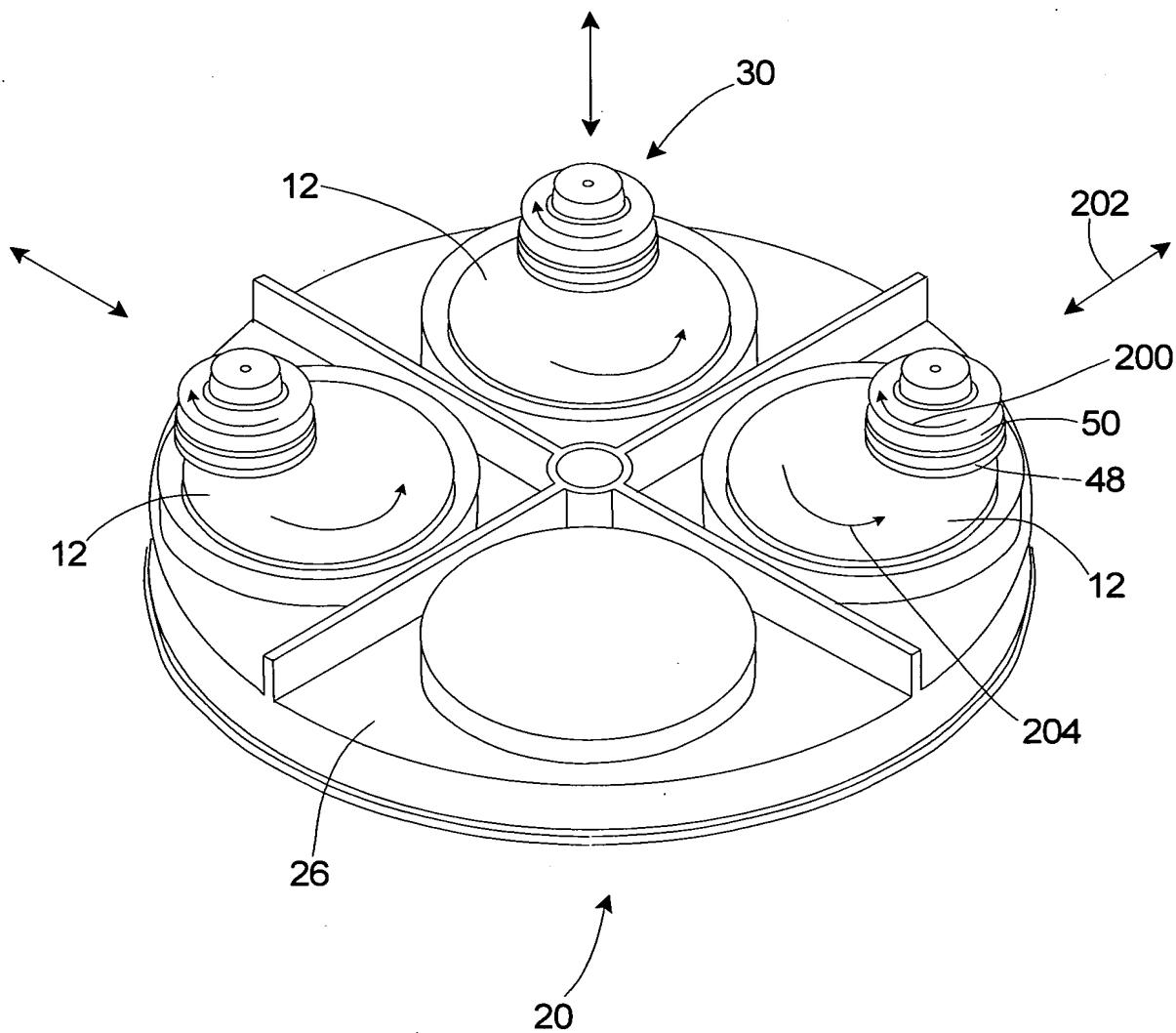


Fig. 2

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

3/12

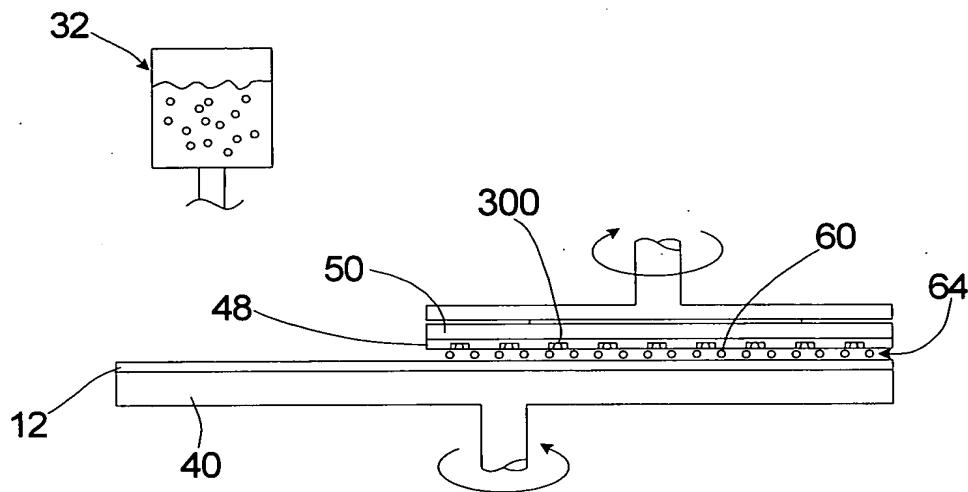


Fig. 3A

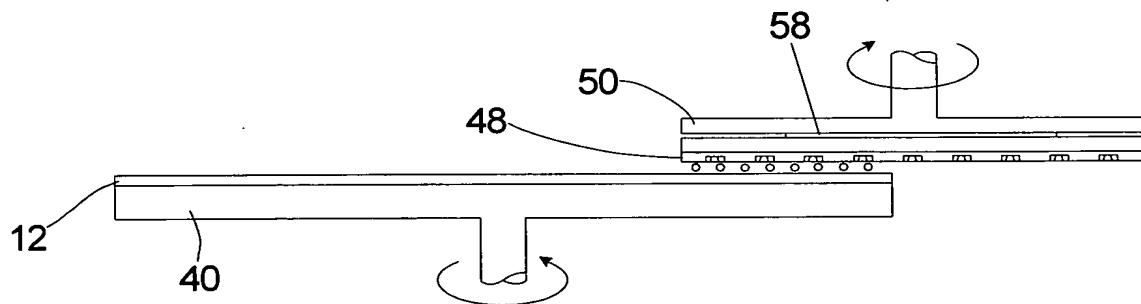


Fig. 3B

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

4/12

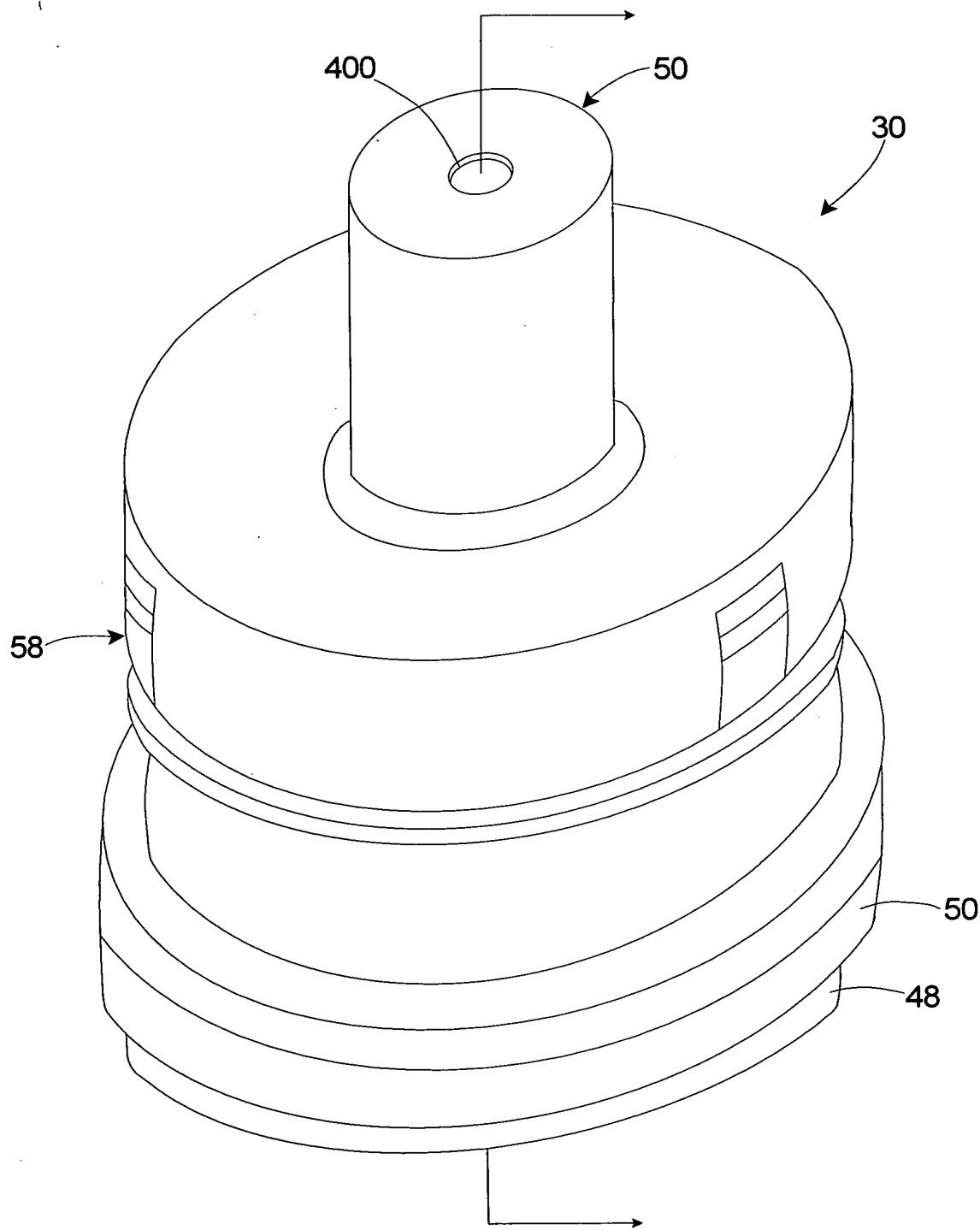


Fig. 4A

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

5/12

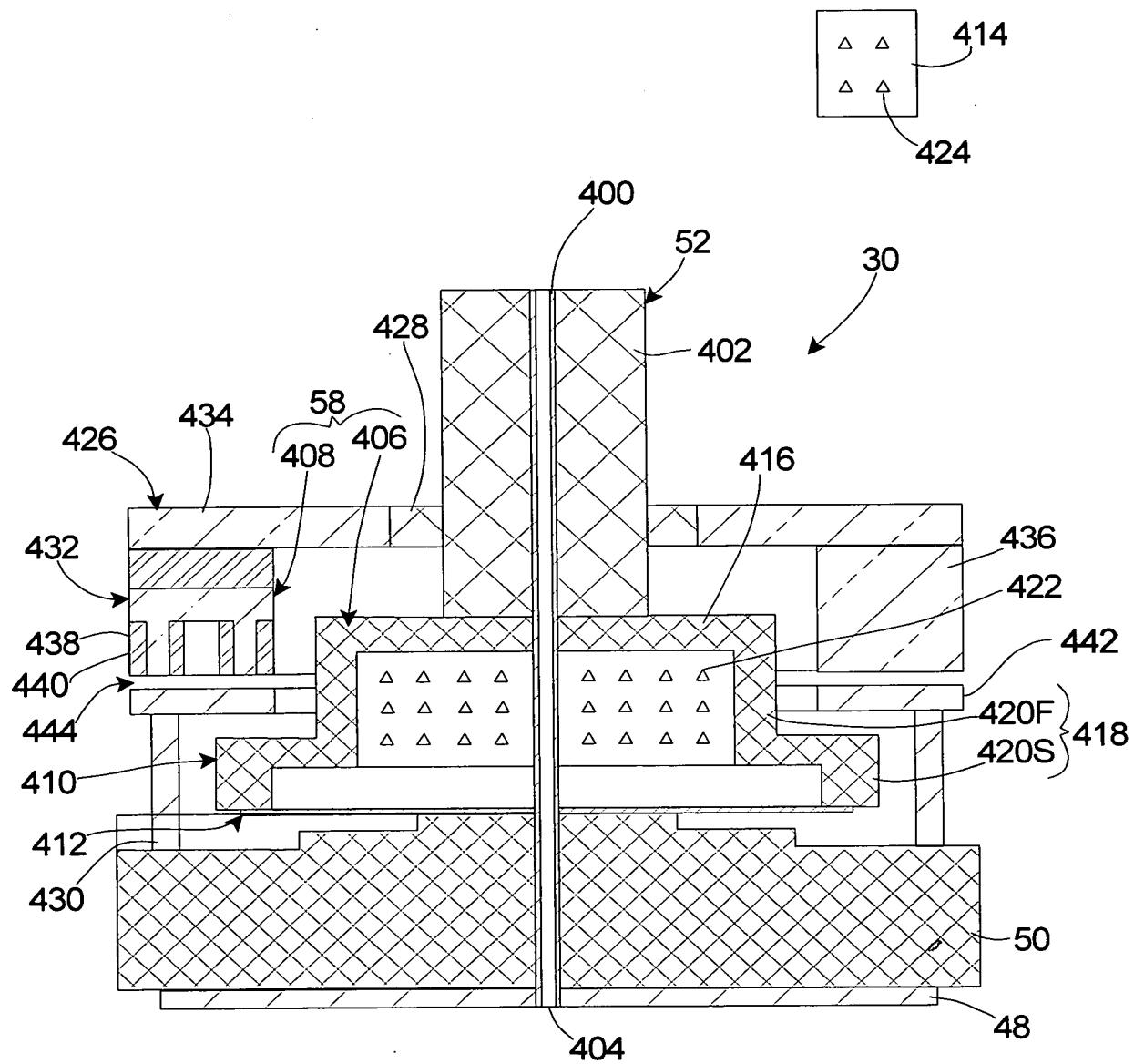


Fig. 4B

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

6/12

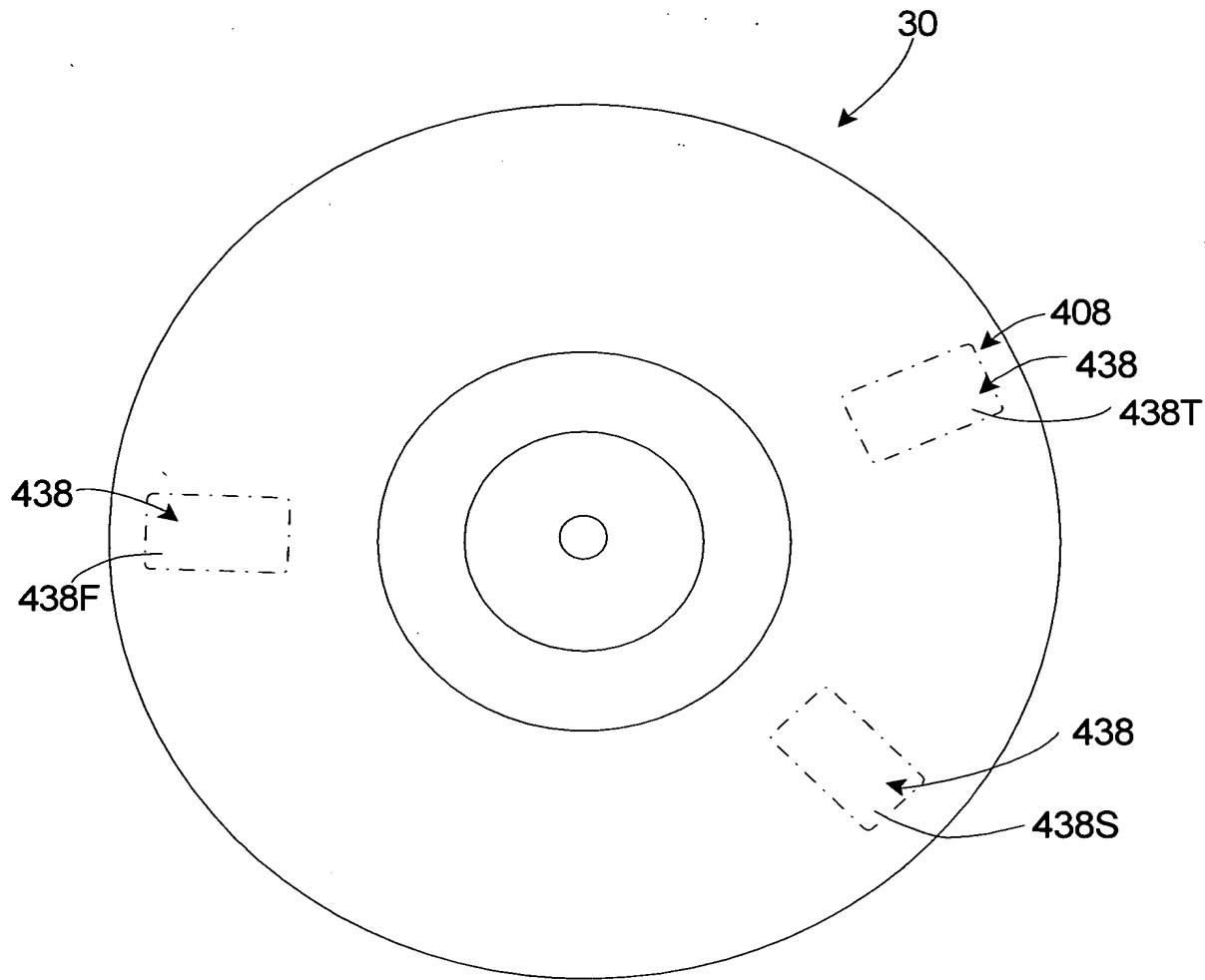


Fig. 4C

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

7/12

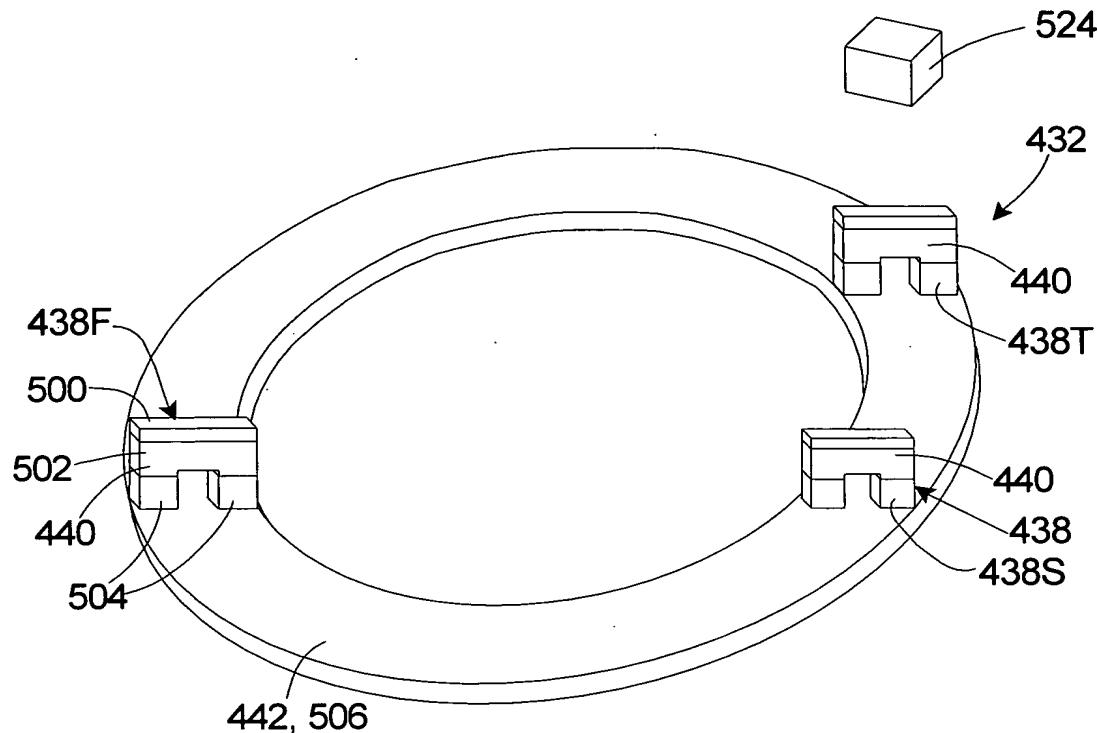


Fig. 5A

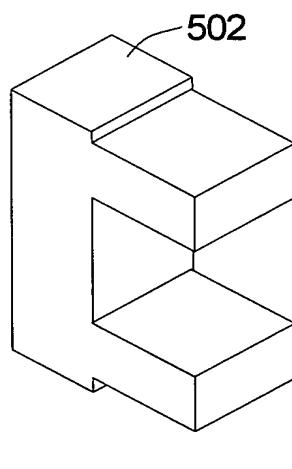


Fig. 5B

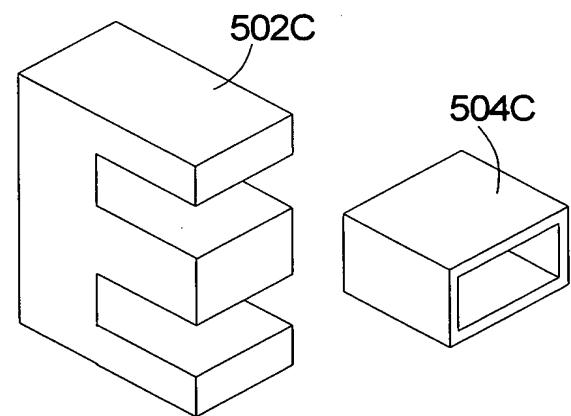
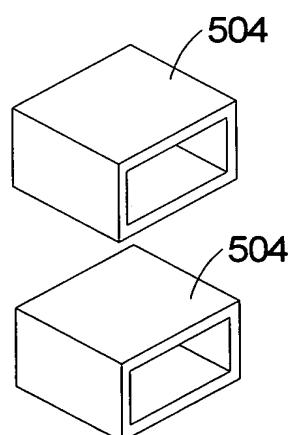


Fig. 5C

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

8/12

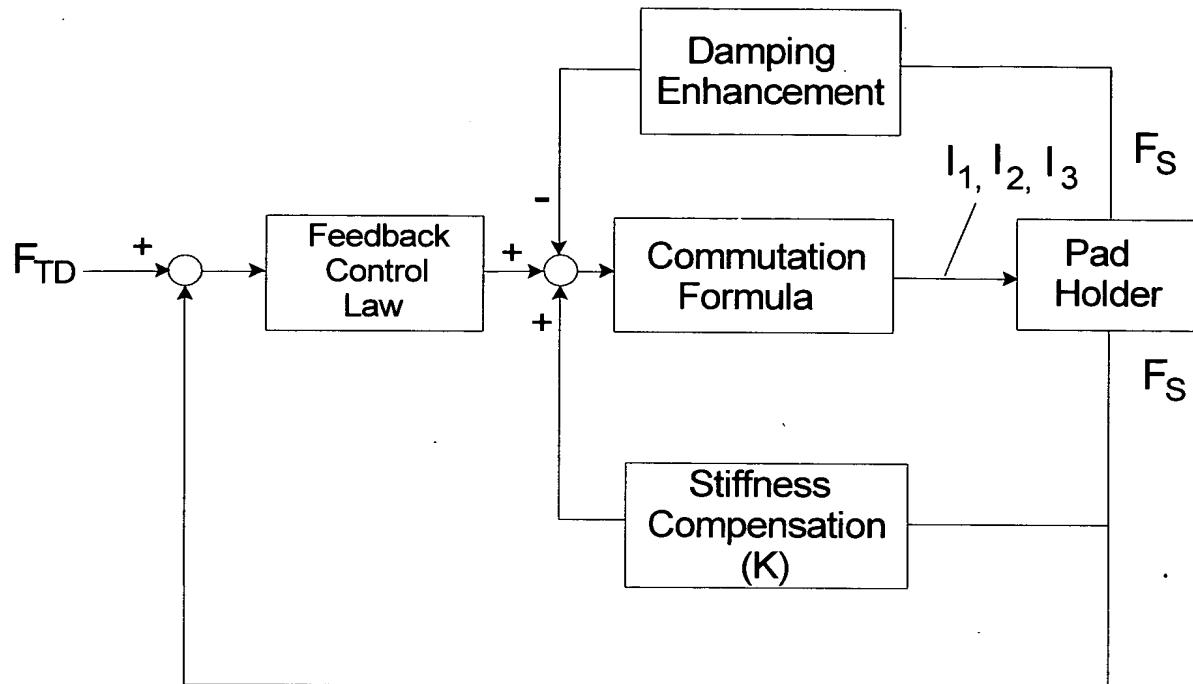


Fig. 6

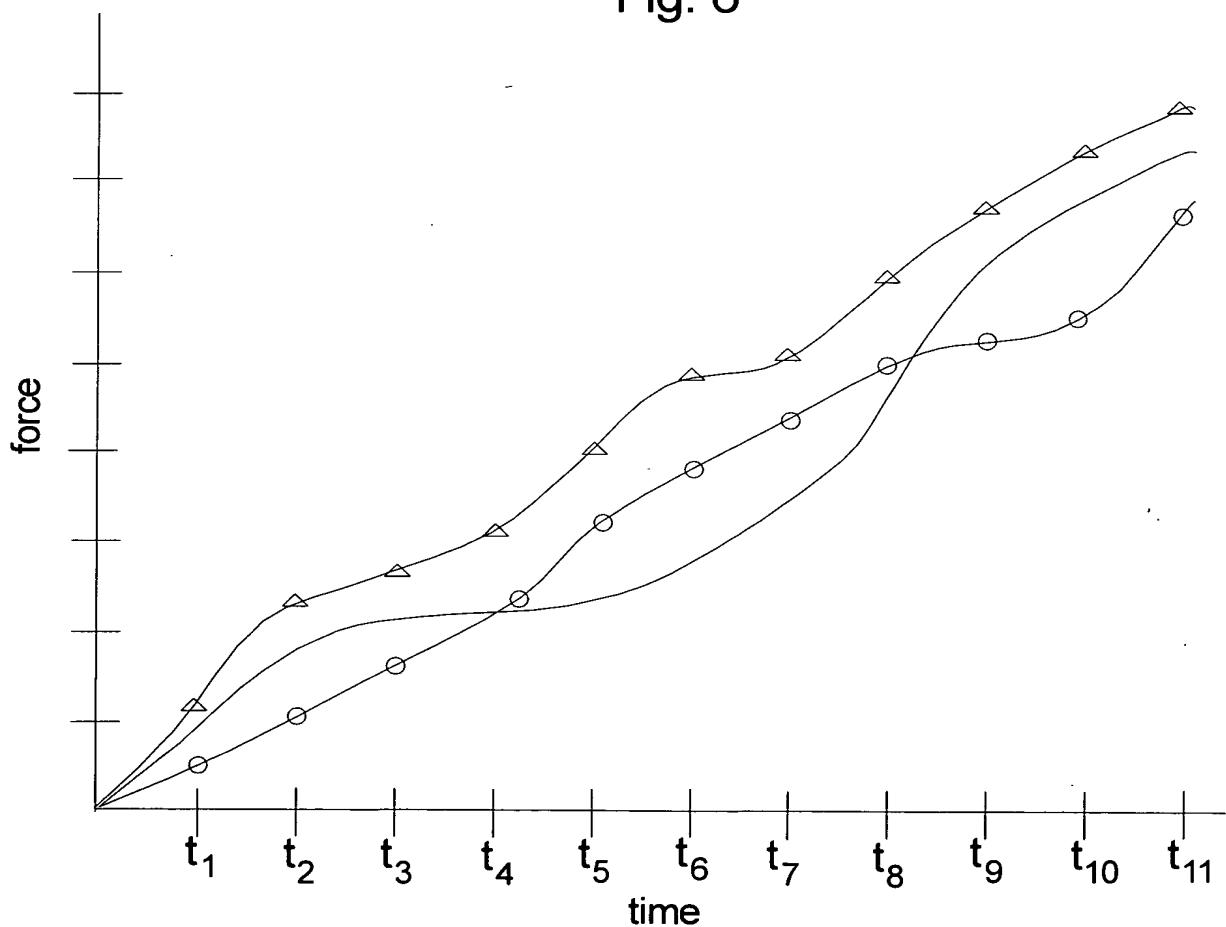


Fig. 7

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

9/12

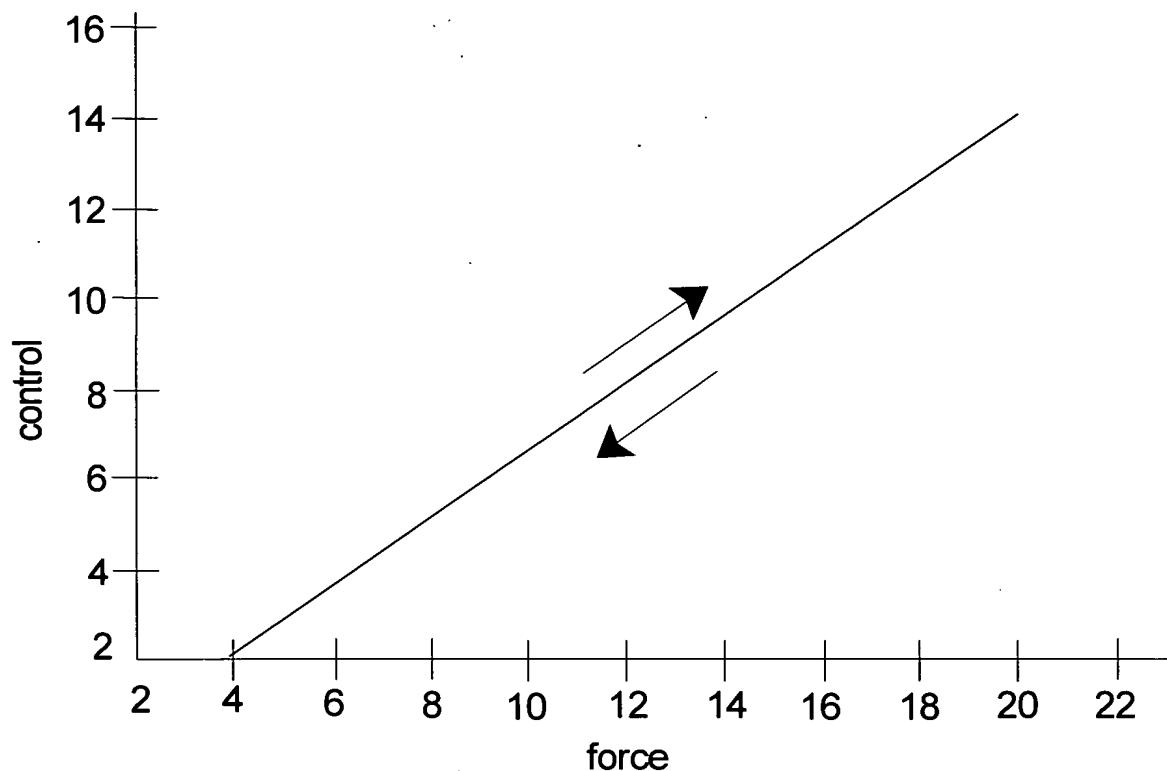


Fig. 8

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

10/12

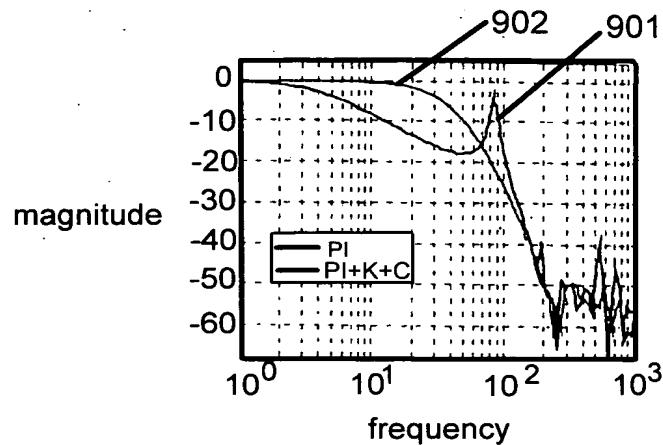


Fig. 9A

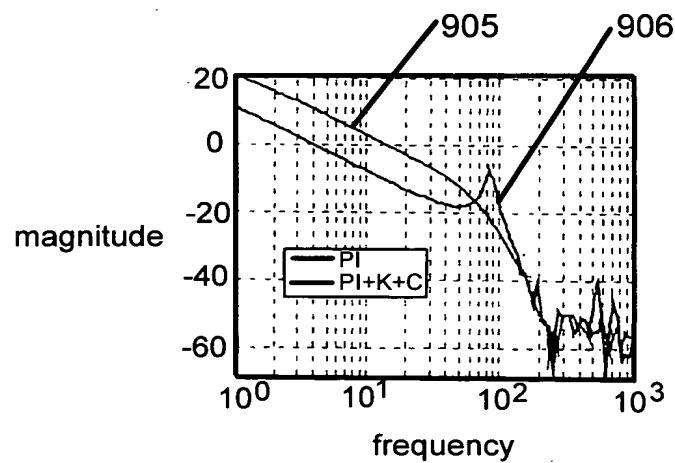


Fig. 9C

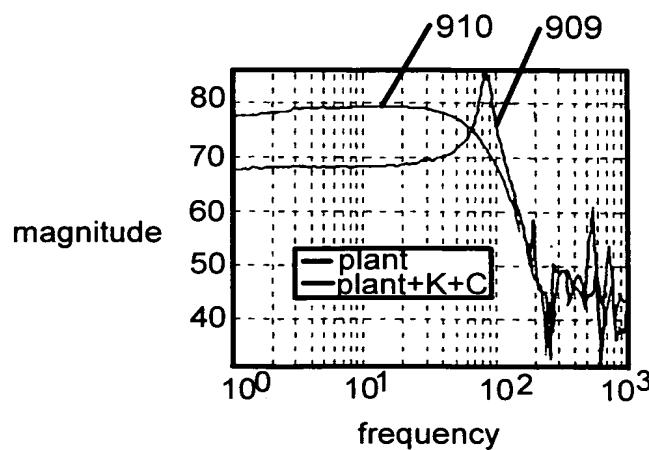


Fig. 9E

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES
Pai Hsueh Yang et al.
PA0551-US / 11269.61

11/12

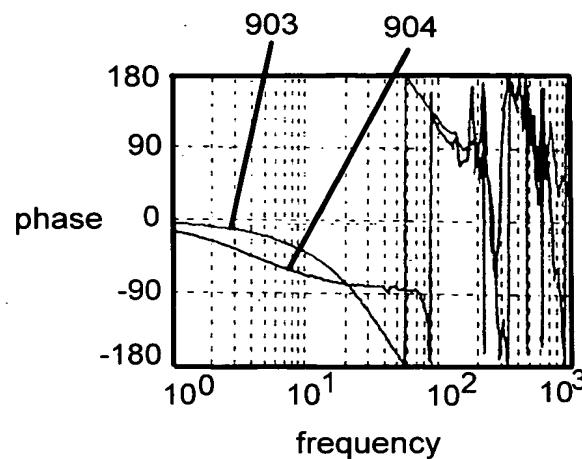


Fig. 9B

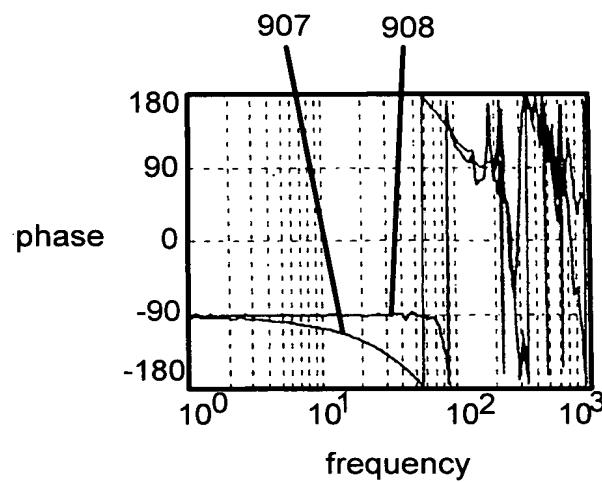


Fig. 9D

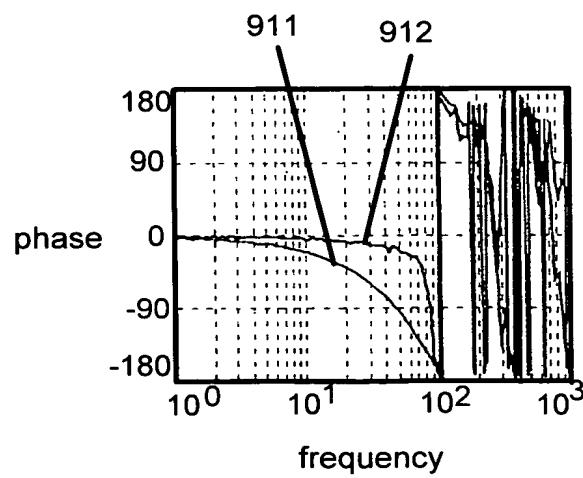


Fig. 9F

FINE FORCE CONTROL OF ACTUATORS FOR
CHEMICAL MECHANICAL POLISHING APPARATUSES

Pai Hsueh Yang et al.
PA0551-US / 11269.61

12/12

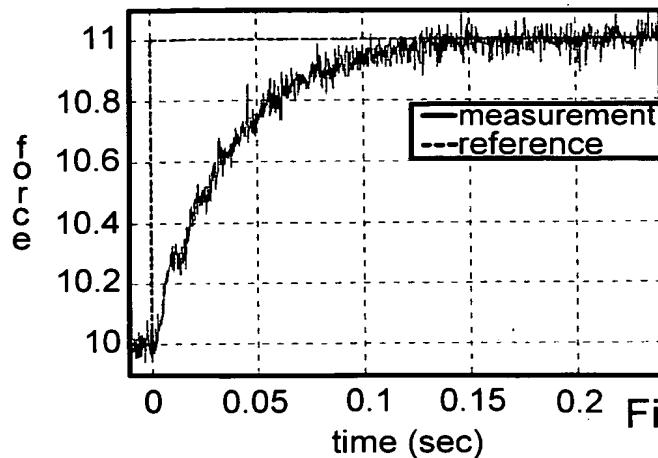


Fig. 10A

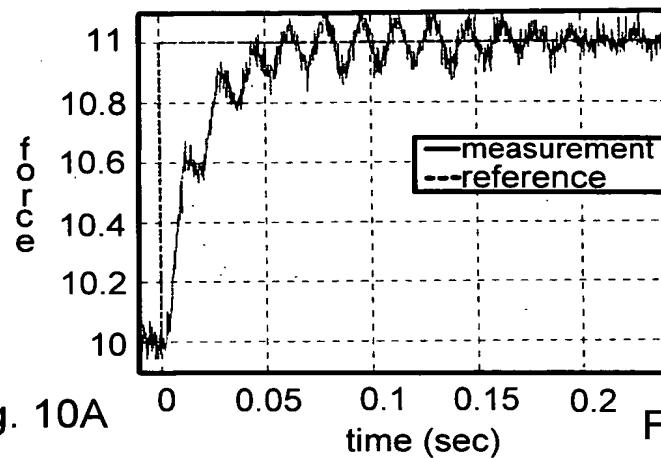


Fig. 10B

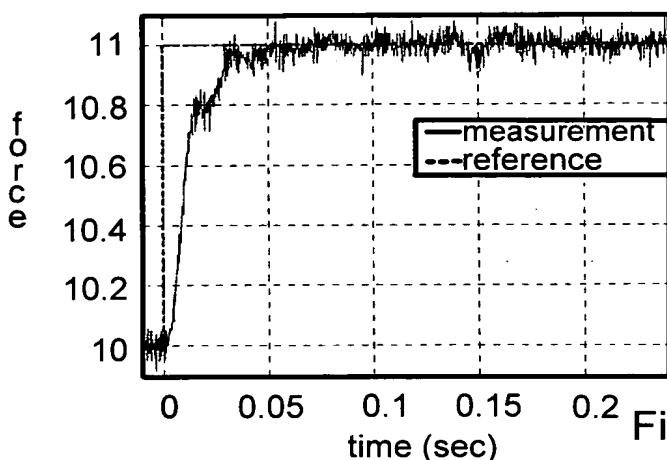


Fig. 10C

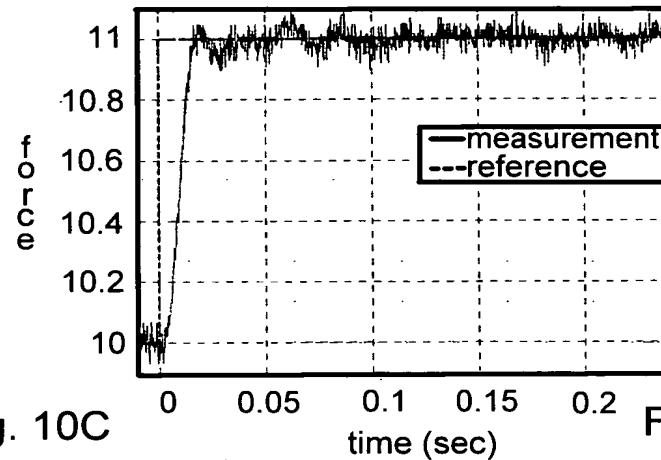


Fig. 10D

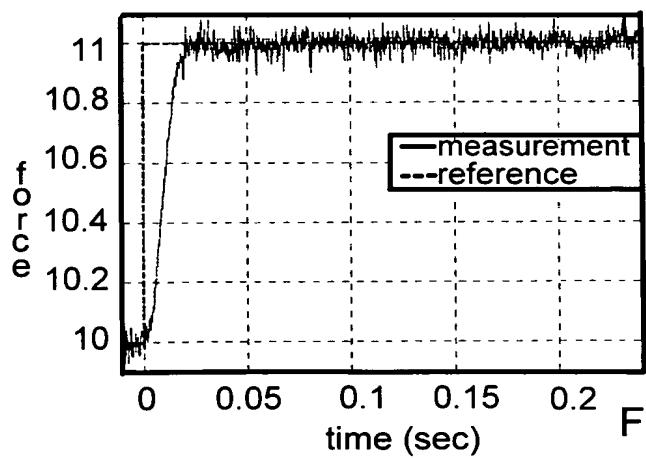


Fig. 10E